

CONTENTS

Volume 56 Number 1 1980

R. J. Henderson, J. R. Sargent Biosynthesis of Neutral Lipids by <i>Euchaeta norvegica</i>	1	K. R. King, J. T. Hollibaugh, F. Azam Predator-Prey Interactions Between the Larvacean <i>Oikopleura dioica</i> and Bacterioplankton in Enclosed Water Columns	49
D. Knox, M. J. Walton, C. B. Cowey Distribution of Enzymes of Glycolysis and Gluconeogenesis in Fish Tissues	7	M. S. Berman, D. R. Heinle Modification of the Feeding Behavior of Marine Copepods by Sub-Lethal Concentrations of Water-Accommodated Fuel Oil	59
R. I. E. Newell, B. L. Bayne Seasonal Changes in the Physiology, Reproductive Condition and Carbohydrate Content of the Cockle <i>Cardium</i> (= <i>Cerastoderma</i>) <i>edule</i> (Bivalvia: Cardiidae)	11	H. B. O'Connors, Jr., D. C. Biggs, D. V. Ninivaggi Particle-Size-Dependent Maximum Grazing Rates for <i>Temora longicornis</i> Fed Natural Particle Assemblages	65
J. Ramus, G. Rosenberg Diurnal Photosynthetic Performance of Seaweeds Measured Under Natural Conditions	21	R. Dalley Effects of Non-Circadian Light/Dark Cycles on the Growth and Moulting of <i>Palaemon elegans</i> Reared in the Laboratory	71
R. C. Aller, J. Y. Yingst Relationships Between Microbial Distributions and the Anaerobic Decomposition of Organic Matter in Surface Sediments of Long Island Sound, USA	29	J. Grant A Flume Study of Drift in Marine Infaunal Amphipods (Haustoriidae)	79
J. L. Haines, D. Maurer Quantitative Faunal Associates of the Serpulid Polychaete <i>Hydroides dianthus</i>	43	B. E. Brown, R. P. Dunne Environmental Controls of Patch-Reef Growth and Development	85

Volume 56 Number 2 1980

W. N. Wheeler Pigment Content and Photosynthetic Rate of the Fronds of <i>Macrocystis pyrifera</i>	97	K. A. Bjorndal Nutrition and Grazing Behavior of the Green Turtle <i>Chelonia mydas</i>	147
W. N. Wheeler Effect of Boundary Layer Transport on the Fixation of Carbon by the Giant Kelp <i>Macrocystis pyrifera</i>	103	H. C. Highsmith Burrowing by the Bivalve Mollusc <i>Lithophaga curta</i> in the Living Reef Coral <i>Montipora berryi</i> and a Hypothesis of Reciprocal Larval Recruitment	155
J. Vidal Physioecology of Zooplankton. I. Effects of Phytoplankton Concentration, Temperature, and Body Size on the Growth Rate of <i>Calanus pacificus</i> and <i>Pseudocalanus</i> sp.	111	C. Hershner, J. Lake Effects of Chronic Oil Pollution on a Salt-Marsh Grass Community	163
J. Vidal Physioecology of Zooplankton. II. Effects of Phytoplankton Concentration, Temperature, and Body Size on the Development and Molting Rates of <i>Calanus pacificus</i> and <i>Pseudocalanus</i> sp.	135	Announcement	174

Volume 56 Number 3 1980

- | | | | |
|---|-----|---|-----|
| J. P. Christensen, A. H. Devol
Adenosine Triphosphate and Adenylate Energy
Charge in Marine Sediments | 175 | J. S. Djangmah, J. Davenport, S. E. Shumway
Oxygen Consumption of the West African Blood
Clam <i>Anadara senilis</i> | 213 |
| P. Caumette, B. Baleux
Etude des eaux rouges dues à la prolifération des
bactéries photosynthétiques sulfo-oxydantes dans
l'étang du Prévost, lagune saumâtre méditerranéenne.
[Study of Red Water Due to the Proliferation of Photo-
synthetic Sulfide-Oxidizing Bacteria in the Lake
of Prévost, a Brackish Mediterranean Lagoon] | 183 | L. Cloutier-Mantha, P. J. Harrison
Effects of Sublethal Concentrations of Mercuric
Chloride on Ammonium-Limited <i>Skeletonema</i>
<i>costatum</i> | 219 |
| J. Vidal
Physioecology of Zooplankton. III. Effects of Phyto-
plankton Concentration, Temperature, and Body Size
on the Metabolic Rate of <i>Calanus pacificus</i> | 195 | C. Erdem, P. S. Meadows
The Influence of Mercury on the Burrowing
Behaviour of <i>Corophium volutator</i> | 233 |
| J. Vidal
Physioecology of Zooplankton. IV. Effects of Phyto-
plankton Concentration, Temperature, and Body Size
on the Net Production Efficiency of <i>Calanus</i>
<i>pacificus</i> | 203 | A. W. Stoner, R. J. Livingston
Distributional Ecology and Food Habits of the
Banded Blenny <i>Paraclinus fasciatus</i> (Clinidae):
a Resident in a Mobile Habitat | 239 |
| | | H. S. J. Roe, A. de C. Baker, R. M. Carson, R. Wild,
D. M. Shale
Behaviour of the Institute of Oceanographic
Science's Rectangular Midwater Trawls: Theoretical
Aspects and Experimental Observations | 247 |

Volume 56 Number 4 1980

- | | | | |
|--|-----|---|-----|
| M. Mishkind, D. Mauzerall
Kinetic Evidence for a Common Photosynthetic
Step in Diverse Seaweeds | 261 | W. I. Wiltse
Effects of <i>Polinices duplicatus</i> (Gastropoda:
Naticidae) on Infaunal Community Structure at
Barnstable Harbor, Massachusetts, USA | 301 |
| H. U. Riisgård, K. Nørgård Nielsen, B. Søgaard-Jensen
Further Studies on Volume Regulation and Effects
of Copper in Relation to pH and EDTA in the
Naked Marine Flagellate <i>Dunaliella marina</i> | 267 | G. Costanzo, L. Guglielmo
Diagnostic Value of the Thelycum in Euphausiids.
II. Oceanic Species, Genus <i>Nematoscelis</i> | 311 |
| C. D. Jennings, S. W. Fowler
Uptake of ^{55}Fe from Contaminated Sediments by
the Polychaete <i>Nereis diversicolor</i> | 277 | G. M. Capriulo, E. J. Carpenter
Grazing by 35 to 202 μm Micro-Zooplankton in
Long Island Sound | 319 |
| P. Miramand, J. C. Guary, S. W. Fowler
Vanadium Transfer in the Mussel <i>Mytilus gallo-</i>
<i>provincialis</i> | 281 | E. A. Caine
Ecology of Two Littoral Species of Caprellid
Amphipods (Crustacea) from Washington, USA | 327 |
| J. D. Paul
Salinity-Temperature Relationships in the Queen
Scallop <i>Chlamys opercularis</i> | 295 | | |

